BEIYAYEV, V.N., dots., kand. tekhm. nauk; BOGATYREV, I.S., dots., kand. tekhm. nauk; BULANZHE, A.V., dots.; VYBORNOV, P.V., st. prepod.; GADOLIN, V.L., dots., kand. tekhm. nauk; GOFMAN, E.I., st. prepod.; PROZECV, N.A., dots., kand. tekhm. nauk; ZAYTSEVA, L.I., inzh.; IVANOV, V.N., dots., kand. tekhm. nauk; KOROVIN, B.I., dots., kand. tekhm. nauk; LUKIN, V.I., dots., kand. tekhm. nauk; MORIN, I.S., dots., kand. tekhm. nauk; OGRINCHUK, I.A., inzh.; PALOCHKINA, N.V., inzh.; POLYAKOV, D.G., dots.; PARGIN, D.P., kand. tekhm. nauk; RASPOPOV, A.G., st. prepod.; RESHETOV, D.N., prof., doktor tekhm. nauk; STOLBIN, G.B., dots., kand. tekhm. nauk, retsenzent; KASPEROVICH, N.S., inzh., red.; SMIRNOVA, G.V., tekhm. red.; UVAROVA, A.F., tekhm. red.

[Machine parts; etlas of designs] Detali mashin; atlas konstruktsii. Moskva, Mashgiz, 1962. 346 p. (MIRA 15:3)

1. Kafedra "Detali mashin" Moskovskogo vysshego tekhnicheskogo uchilishcha im. Baumana (for all except Stolbin, Kasperovich, Smirnova, Uvarova).

(Machinery-Design)

BELYAYEV, V.N., dots., kand. takhm.nauk; BOGATYREV, I.S., kand. takhm.
nauk; BULANZHE, A.V., dots.; VYBORNOV, P.V., st. prepod.;
GADOLIN, V.L., dots., kand. takhm. nauk; COFMAN, E.I., dots.;
DROZDOV, N.A., dots., kand. takhm.nauk; ZAYTSEVA, L.I., inzh.;
IVANOV, V.N., dots., kand. takhm. nauk; KOROVIN, B.I., dots.,
kand. takhm. nauk; LUKIN, V.I., dots., kand. takhm.nauk;
MORIN, I.S., dots., kand. takhm. nauk; OCRINCHUK, I.A., inzh.;
PALOCHKINA, N.V., inzh.; POLYAKOV, D.G., dots.; PARGIN, D.P.,
kand. takhm.nauk[deceased]; RASPOPOV, A.G., st. prepod.;
RESHETOV, D.N., prof., doktor takhm. nauk; KASPEROVICH, N.S.,
inzh., red.; TIKHANOV, A.Ya., takhm. red.

[Machine parts; atlas of designs] Detali mashin; atlas konstruktsii. Izd.2., perer. i dop. Moskva, Mashgiz, 1963.363 p. (MIRA 16:12)

1. Kollektiv kafedry "Detali mashin" Moskovskogo vysshego tekhmicheskogo uchilishcha im. Baumana (for all except Kasperovich, Tikhanov).

(Machinery-Design and construction)

MAMCHENKO, V.P., inmh.; RYAZARIS V.A., inzh.; PROZDO A.; kand. tekhn.
nauk, retsenzent; AYZINBUD, S.Ya., kand. tekhn. nauk,
retsenzent; POLULEKH, V.K., inzh., retsenzent;
STOLYARCHUK, I.V., kand. tekhn. nauk; GOROKHOVIKOV, L.M.,
kand. tekhn. nauk; SAZONOV, A.G., inzh., red.; CHEREPASHENETS,
R.G., inzh., red.; USENKO, L.A., tekhn. red.

[Operation of locomotives] Ekspluatatsiia lokomotivov. Hoskva,
Transzheldorizdat, 1963. 415 p. (MIRA 16:12)
(Locomotives) (Railroads—Mannathi)

DROZDOV, N.A., kand. tekhn. nauk, dotsent; ZVEREV, A.Ye., inzh.

Effect of vibration on the operational accuracy of a IP converter. Vych. tekh. [MVTU] no.3:229-237 '63. (MIRA 17:2)

IVANOVSKIY, N.F.; DROZDOV, N.A.

Determining the amount of the tightening of the stages block in the body of a sinking centrifugal pump. Mash. i neft. obor. no.12:9-13 64. (MIRA 18:1)

1. OKB po besshtangovym nasosam.

DROZDOV, N.A., prof.

Succinic acid increases crop yields. Priroda 51 no.4:117-118
Ap \*62. (MIRa 15:4)

1. Leningradskiy sel'skokhozyaystvennyy institut.
(Plants, Effect of succinic acid on)

DROZDOV, N.A., prof., doktor sel'skokhozyaystvennykh nauk

Succinic acid as a new means of increasing crop yields. Zemledelie 24 no.6:56-57 Je '62. (MIRA 15:11) (Plants, Effect of succinic acid on)

DROZDOV, N. A., doktor sel\*skokhozyaystvennykh nauk, prof.; BELOUSOV,

Use of succinic acid in agriculture. Biul. tokhil-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. no.12:23-27 162. (MIRA 16:1)

(Succinic acid) (Agricultural chemistry)

DROZDOV, N.C.; GAREVSKTY, V.N.; KOSTYUKOV, N.S.

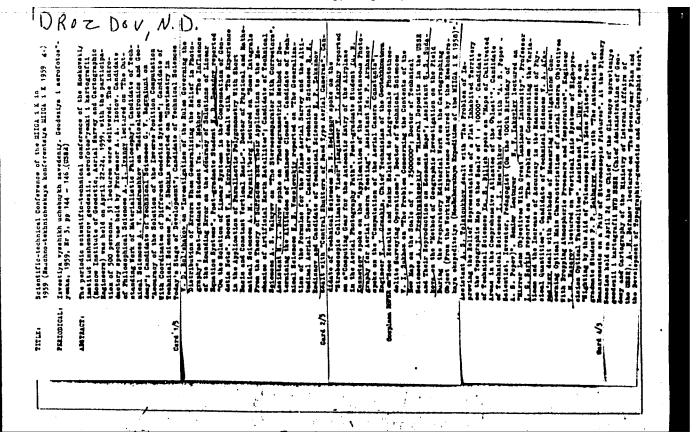
Effect of diffusion processes on the brankfown voltage of "aged" porcelain. Izv. vys. ucheb. zav.; fiz. nc.4476-79 \*64 (MIRA 17:8)

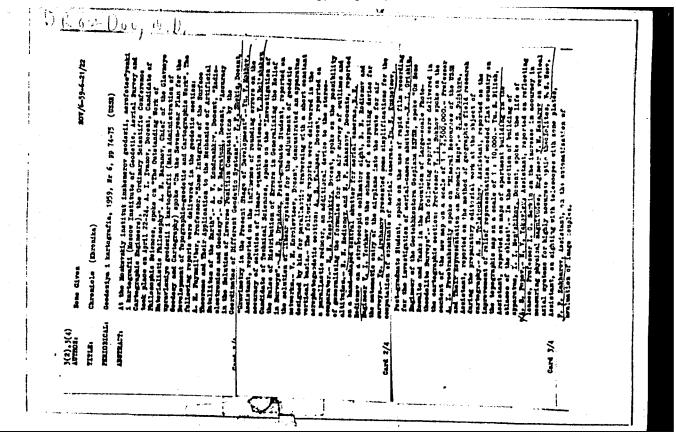
1. Moskovskiy ordena lenina energeticheskiy institut.

DROZDOV, M.D.

Efficiently organized accounting in the production of unbleached fabrics. Tekst.prom. 16 no.7:57-59 Jl '56. (MLRA 9:8)

1. Glavnyy bukhgalter fabriki "Osvoboshdennyy trud". (Textile industry--Accounting)





DROZDOV, N.D., aspirant

Solution of linear systems in the adjustment of geodetic networks. Trudy MIIGAIK no.39:83-88 '60. (MIRA 13:8)

1. Kafedra vysshey geodesii Mokovskogo instituta inzhenerov geodezii, aerofotos yenki i kartografii.

(Tripngulation)

DROZDOV, D., aspirant

Solution of conditional equations by the method of orthogonalization. Trudy MIIGAIK no.42:23-33 160. (MIRA 14:9)

1. Kafedra vysshey geodezii Moskovskogr instituta inzhenerov geodezii, aerofotos"yemki i kartografii. (Algebras, Linear)

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\$/035/62/000/003/049/053 A001/A101

16.1500

Drozdov. N. D.

TITLE: •

AUTHOR:

- 4

On algebraic foundations of the theory of measurment adjustment

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 3, 1962, 35, abstract 3G242 ("Tr. Mosk. in-ta inzh. geod., aerofotos"yemki i

kartogr.", 1961, no. 45, 53-82)

The author describes the method which enables one to compare all solutions of condition equations or equations of errors from a single qualitative viewpoint and single out one of them which possesses particular algebraic properties. It is pointed out that this method may play an important role as an algebraic foundation for probability comparison of all mentioned solutions. starting point for the method is the concept of pseudo-inverse matrices for square matrices. All matrices  $A_n^{\text{c}}$  which meet the condition  $AA_n^{\text{c}} = E$ , if they exist, are named pseudo-inverse to A from the right-hand side. All matrices  $B_{1}^{-\epsilon}$  satisfying the condition  $B_{1}^{-\epsilon}$  B=E are named pseudo-inverse to B from the left-hand side. It is proved that right-hand pseudo-inverse matrices exist (only) for matrices whose rank coincides with the number of lines. Left-hand matrices

Card 1/3

S/035/62/000/003/049/053 A001/A101

On algebraic foundations ...

exist (only) for matrices whose rank coincides with the number of columns. It is shown that any solution  $v_1$  of condition equations Av = w can be expressed in the form  $v_1 = (A_{\Pi}^{-\epsilon})_{1}w$ , and any solution  $x_1$  of equations of errors v = Bx - 1 can be expressed in the form  $x_1 = (B_1^{-\epsilon})_1 1$ . A single solution of this form corresponds to every fixed pseudo-inverse matrix. It is pointed out that in comparison of all these solutions, the theorem of fixing pseudo-inverse matrices  $A_{ij}^{-\epsilon}$  ( $B_{ij}^{-\epsilon}$ ) plays a fundamental role; it enables one to construct any pseudo-inverse matrix, e.g. to A whose linear covering of columns coincides with the given linear subspace LC commensurate with the linear covering of LA lines of matrix A. Algebraic properties of pseudo-inverse matrices are determined in dependence on the arrangement of subspace LG relative to subspace LA. So, if LG is orthogonal to LA, then it is not possible to make a conjunction of a pseudo-inverse matrix with it. If, however,  $L_{\tilde{G}}$  coincides with  $L_{\tilde{A}}$ , there exist several properties of the corresponding pseudo-inverse matrix which render it, in some sonse, most similar to conventional inverse matrices Cailey for square non-degenerated matrices. Such pseudc-inverse matrices are named main ones. The formalism for operations with pseudo-inverse matrices is described. In conclusion, the author investigates the ways of finding the main solution of condition equations (equations of errors) by transforming them into equivalent system; all these ways are compared from

Card 2/3

On algebraic foundations ...

S/035/62/000/003/049/053 A001/A101

the viewpoint of effects of approximation errors. It is shown that the coefficient of conditionality of initial equations, which is always unity or more, is squared while converting to normal equations. Therefore, the method of converting to normal equations is not the best one from the viewpoint of accuracy. It is stated that the best in this sense is the method of orthogonalization of initial equations. There are 10 references.

N. Drozdov

[Abstracter's note: Complete translation]

t

Card 3/3

16,1500

30265 s/035/62/000/003/050/053 A001/A101

AUTHOR:

Drozdov, N. D.

TITLE:

Some questions of the theory of measurment adjustment

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 3, 1962, 35-36, abstract 30243 ("Tr. Mosk. in-ta inzh. geod., aerofotos"yemki i

kartogr.", 1961, no. 46, 31-64)

The author considers the grounds of the least-square method without TEXT: the assumptions that systematic errors are absent and measurements are not correlated. All constructions are conducted on the general algebraic basis, in particular on the basis of the theory of pseudo-inverse matrices. The latter enables one to present all solutions  $\eta$  of condition equations  $A\eta = W$  and all solutions  $\xi$  of equations of errors  $-\eta = B\xi - \lambda$  in the form of linear statistics of measurement vector  $\lambda$  or measurement errors  $\Delta$ . The probability comparison of all these statistics is carried out on the basis of mathematical expectation of the vector of measurement errors  $c_{\lambda} = M\Delta$ , i.e., vector of systematic errors, and an arbitrary non-degenerated correlation matrix K  $\chi$  of this vector. It is shown that the latter restriction (non-degeneracy) is not

Card 1/4

CIA-RDP86-00513R000411220 APPROVED FOR RELEASE: Thursday, July 27, 2000

S/035/62/000/003/050/053 A001/A101

Some questions of the theory ...

essential. If  $a_{\lambda}$  and  $K_{\lambda}$  are known, then for any solution  $\{a_{\lambda}^{-\epsilon}\}_{i}^{\lambda}$  of equations of errors the systematic error  $a_{\epsilon}$  and correlation matrix  $K_{\epsilon}^{\epsilon}$  look like this:

and for any solution  $\gamma = (A_{\Pi}^{-\epsilon})_{1} \omega$  of condition equations, like this:  $c_{\gamma} \left[ E - (A_{\Pi}^{-\epsilon})_{1} A \right] c_{\lambda}, \quad K_{\gamma} = \left[ E - (A_{\Pi}^{-\epsilon})_{1} A \right] \times K_{\lambda} \left[ E - (A_{\Pi}^{-\epsilon})_{1} A \right]^{2}.$ 

$$[\overline{\eta}, \overline{\kappa}\overline{\lambda}^{\dagger}\overline{\eta}] = \min,$$

Card 2/4

S/035/62/000/003/050/053 A001/A101

Some questions of the theory ...

where  $\bar{K}_{\lambda}$  is correlation matrix of measurements with an accuracy up to an arbitrary factor, i.e.,  $K_{\lambda} = s^2 \bar{K}_{\lambda}$ . However, these solutions do not, in general, have to satisfy second conditions of definitions. It is shown that the necessity and sufficient condition for solutions  $\{$  and  $\overline{\eta}$  to be most reliable is the following condition:  $B^* \overline{K_{\lambda}}$   $c_{\lambda} = 0$ . It is fulfilled also in the case of nonzero systematic errors and represents the condition of eliminating the latter in the adjustment process by the principle of least-squares. The practical importance of this condition is noted for a reasonable devising of measurements, but it is emphasized that often no devising of measurements can lead to the meeting of this condition. In these cases, probability comparison of statistics  $oldsymbol{\eta}$ and & should be carried out based on the following definitions, which are weaker but still are reasonable: statistics  $\hat{\eta}$ , of all statistics  $\uparrow$ , is a reliable approximation of vector a, if it meets the conditions:  $\|K\hat{\eta}\| \le \|K\eta\|$ Sup |cf| Sup |cf| for any ch. It is shown that reliable approximations are obtained by the least-square principle in the case only when the measurements are of the same accuracy and are not correlated, i.e., if  $\bar{K} \lambda = E$ . If the measurements are not of the same accuracy, adjusted results of measurements are

Card 3/4

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041122

S/035/62/000/003/050/053 A001/A101

Some questions of the theory ...

obtained with the vector of systematic errors which exceeds, in the norm, the vector of systematic errors of measurements proper. In conclusion the author considers estimates of measurement accuracy, i.e., estimates of factor  $s^2$  in the present approach to determining  $\bar{K}_{\lambda}$ , and estimates of vector  $c_{\lambda}$  of systematic errors of measurements using the results of adjustment by the principle of least squares. There are 11 references.

N. Drozdov

[Abstracter's note: Complete translation]

Card 4/4

# DROZDOV, N.D., assistent

Some problems of the theory of measurement leveling. Trudy MIIGAIK no.46:31-64 '61. (MIRA (MIRA 15:7)

1. Kafedra vysshey geodesii Moskovskogo instituta inshenerov geodesii, aerofotos"yemki i kartografii.

(Least squares) (Mensuration)

VALEYEV, Kh.S., kand.tekhn.nauk; KNYAZEV, V.A.; DROZDOV, N.G., doktor tekhn.nauk, prof.

Nonlinear semiconductor resistances based on zinc, silicon, and tin oxides. Elektrichestvo no.4:72-76 Ap '64. (MIRA 17:4)

1. Gosudarstvennyy issledovatel'skiy elektrokeramicheskiy institut (for Valeyev, Knyazev). 2. Moskovakiy energeticheskiy institut (for Drozdov).

11546-66 ENT(d)/ENP(k)/ENP(1) ACC NR: AP6005030

SOURCE CODE: UR/0105/65/000/001/0092/0092

AUTHOR: Basharin, A. V.; Bystrov, A. M.; Veshenevskiy, S. N.; Voronetskiy, B. B.; Drozdov, N. U.; Druzhimin, N. N.; Il'inskiy, N. F.; Petrov, I. I.; Petrov, L. P.;

Sandler, A. S.; Sokolov, M. M.; Chilikin, M. G.

ORG: none

TITLE: Professor Andrey Trifonovich Golovan

SOURCE: Elektrichestvo, no. 1, 1965, 92

TOPIC TAGS: electric engineering, electric engineering personnel

ABSTRACT: A brief obituary containing the following biographical information: Deceased was a doctor of technical sciences, a professor (Department of Electrical Equipment for Industrial Enterprises) of the Moscow Power Engineering Institute for the past 30 years, and a staff member since 1931 of the TsNIITMash (Central Scientific-Research Institute of Heavy Machine Building). Died 15 Sep 64, at age 63, after a long and severe illness. In 1926, after graduating from the Leningrad Electrical Engineering Institute im. Ul'yanov, deceased became director of a substation within the Gor'kiy GRES. At the TsNIITMash, the deceased worked out the methods for computing the electric drive of presses, drop hammers and other machine tools with percussion loads. The monograph on these methods has gained wide professional recognition. Deceased trained several thousand engineers and over 30 doctors and candidates of science. He authored over 50 scientific works, including the textbook "Osnovy Elektroprivoda" (Fundamentals of Electric Drive)

Card//2

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DROZDOV, N. G., Docent

"Static Electricity in Industry." Sub 7 Mar 47, Mosdow Order of Lenin Power Engineering Inst imeni V. M. Molotov

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

DROZDOV, N. G.

Staticheskow elektrichestvo v promyshlennosti 2. izd., perer. i znachitel'no dop. Moskva, Gos. energ. izd-vo. 1949. 173 p. (50-38165)

QC581.D7 1949

DROZDOV, N.G.

PHASE X TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 691 - X

BOOK

Call No.: AF646811 Authors: DROZDOV, N. G., NIKULIN, N. V., PRIVEZENTSEV, V. A.

FEDOROV, L. I., YAMANOV, S. A. Full Title: ELECTRICAL ENGINEERING MATERIALS Transliterated Title: Elektromaterialovedeniye

PUBLISHING DATA

Originating agency: None

Publishing House: State Power Engineering Publishing House Date: 1954 No. pp.: 397 No. of copies: 10,000

Editorial Staff

Editor: Drozdov, N. G., Dr. Techn. Science, Professor PURPOSE AND EVALUATION: The book is designed as a textbook for tekhnicums and schools of electrical engineering and the electrical industry but may also be used as a reference book by engineers. The book contains basic information on materials used in the electrical industry dielectrics, conductors and magnetic materials giving their properties and testing. The information is presented in great detail. Altogether the book has a considerable value for study of the materials used by Soviet industry.

Elektromaterialovedeniye

AID 691 - X

TEXT DATA

Coverage: The book has a preface, an introduction, and the text is divided into 6 parts. The introduction considers the necessity of using the appropriate materials and lists many names of Russian inventors and scientists who worked on the perfectioning of insulating equipment. The text of the book deals with the basic theory of dielectrics and their properties, the design and construction of testing installations, and materials for conductors and their properties. A number of tables describing the properties of the materials used as established by GOST standards are scattered throughout the book. Some new materials developed and manufactured by the Russians are mentioned, e. g. the liquid dielectrics sovol (C6H2Cl3 -C6H3Cl2) and sovtol (CH3Cl3) made of diphenyl (C6H5-C6H5); ultrafarfor (superporcelain) and radiofarfor (radioporcelain), allegedly the best insulating porcelain; emal'lak metalvin (enamel varnish metalvin) used for transmission line insulation.

2/5

Elektromaterialovedeniye AID	691 - X
Table of Contents	Page
Preface	3 7 11
Introduction	7
Ch. One Basic Theory of Dielectric Materials	11
Electromagnetic field	11
Characteristics of dielectrics	28
Polarization of dielectrics	34
Conductance of dielectrics	45
Power losses in dielectrics	11 28 34 55 58 65
Sparking of liquid dielectrics	58
Sparking of solid dielectrics	65
Methods of determining dielectrical properties	-
of insulating materials	71
Methods of determining mechanical properties of	•
insulation materials	81
Physicochemical properties of insulation materials	81 86 99
Ch. Two Gaseous and Liquid Dielectrics	99
Gaseous dielectrics and their properties	99
Liquid dielectrics	117
Ch. Three Solid Dielectrics	138
Solid organic inculation materials	138
3/5	-

Elektromaterialovedeniye		AID 691 - X Page			
Soft magnetic materials Hard magnetic materials Magnetic dielectrics Index No. of References: None Facilities: None	5/5	367 382 394 398			
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DROZDOV, H.G., professor, doktor tekhnicheskikh nauk; PRIVEZENTSEV, V.A., professor, doktor tekhnicheskikh nauk; KOMAROV, N.S., dotsent, kandidat tekhnicheskikh nauk; NIKULIN, N.V., dotsent, kandidat tekhnicheskikh nauk; SHUNSKIY, I.I., dotsent, kandidat tekhnicheskikh nauk; KREMLEV-SKIY, P.A., kandidat tekhnicheskikh nauk; GEPPE, A.P., inshener; ALEK-SANDROV, N.V., professor, doktor tekhnicheskikh nauk; TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; MIGENSON, L.S., professor, doktor tekhnicheskikh nauk; STEFANOV, V.S., dotsent, kandidat tekhnicheskikh nauk; MAGIDSON, A.O., inshener.

"Science of electrical materials." M.M.Mikhailov. Reviewed by N.G. Drosdov, and others. Elektrichestvo no.3:93-94 Mr 154. (MERA 7:4)

1. Moskovskiy energeticheskiy institut im. Molotova. 2. Vsesoyusnyy saochnyy energeticheskiy institut.

(Electric insulators and insulation) (Electric conductors)

DROZDOV N.G. BABIKOV, M.A.; VENIKOV, V.A.; DROZDOV, M.G.; PRIVEZENTSEV, V.A.; SOLOVIYEV, I.I.; TAHEYEV, B.M.; MIKULIM, M.V. Professor S.M.Bragin, Elektrichestvo no.12:82-83 D '54. (MLRA 7:11) (Bragin, Sergei Mikhailovich, 1894-

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA

CIA-RDP86-00513R00041122

DROZDOV, N.G.

AID P - 1456

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 7/36

Authors: Drozdov, N. G., Doc. of Tech. Sci., Prof., and Chatinyan, Yu. S., Kand. of Tech. Sci., Moscow

Title : Influence of vibrating loads upon the mechanical strength of high-voltage porcelain

Periodical: Elektrichestvo, 2, 32-36, F 1955

Abstract: The authors investigate the effect of aging of insulators, that is, the sudden loss of mechanical strength. Tests were made with high-voltage porcelain of M-1 and M-2 types. The influence of glaze and baking temperature upon aging was also tested. It was found that with the application of loads reversing with sound frequency, the vibrations thus created reduce the mechanical strength of the porcelain. As the frequency increases, the strength declines down to the fatigue limit, beyond which it becomes

AID P - 1456

Elektrichestvo, 2, 32-36, F 1955

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Card 2/2 Pub. 27 - 7/36

constant. The authors found an empirical formula expressing the relationship between the fatigue-limit and the strength of porcelain. Seven diagrams, 4 Russian references (1932-1946)

Institution: None

Submitted : 0 23, 1954

DROZDON, N. G.

AID P - 2008

Subject

i

: USSR/Electricity

Card 1/2

Pub. 27 - 12/31

Authors

: Drozdov, N. G., Doc. of Tech. Sci., Prof. Chatinyan, Yu. S., Kand. of Tech. Sci., Moscow

Title

: Modulus of elasticity of high-voltage porcelain as a

characteristic of mechanical strength

Periodical: Elektrichestvo, 4, 53-55, Ap 1955

Abstract

: In order to determine the relationship between the modulus of elasticity and mechanical strength and, in particular, the dependence of this modulus on intramolecular intervals, the authors studied the

simplest case of hard bodies, namely, crystals of cubical syngony of AX type. They describe the resonance method applied in measuring the modulus and find that the above relationship is linear. They establish an empirical formula for this relationship, which gives satisfactory results close to the experimental ones.

AID P - 2008

Elektrichestvo, 4, 53-55, Ap 1955

Card 2/2 Pub. 27 - 12/31

One photograph, 3 diagrams, 4 references (1937-1952) (3 Russian).

Institution: Moscow Power Engineering Institute im. Molotov

Submitted : 0 23, 1954

DROZDON NG

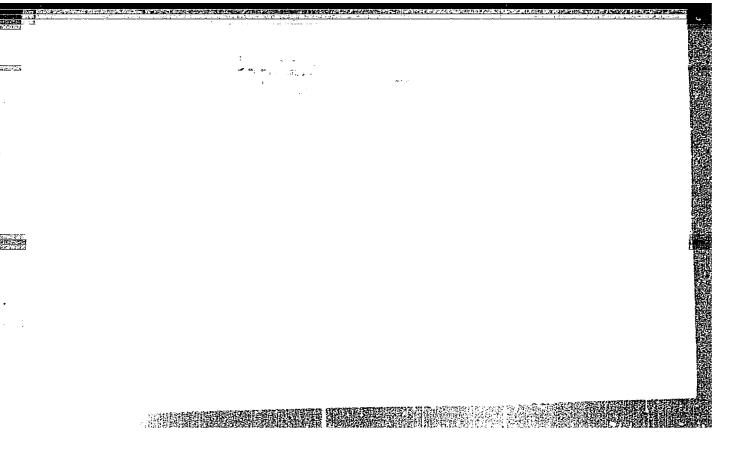
GOLUBTSOVA, V.A.; CHILIKIN, M.G.; MARGULOVA, T.Kh.; MESHKOV, V.V.; DROZDOV, N.G.; PEREKALIN, M.A.; SMIRNOV, V.A.

Professor V.S. Pantiushin. Elektrichestvo no.7:93 J1'56. (MLRA 9:10)

(Pantiushin, Vasilii Sergesvich, 1906-)

ALEKSANDROV, N.V.; BOGORODITSKIY, N.P.; VALEYEV, Kh.S.; VUL, B.M.; DROZDOV, N.G.; KURBATOVA, N.S.; HIMIAYLOV, G.P.; MIKHAYLOV, H.M.; PETROV, G.N.; PRIVE-ZEHTSEV, V.A.; HENNE, V.T.; SKANAVI, G.I.

Professor B.M. Tareev. Elektrichestve me.8:94 Ag '56. (MIRA-9:10) (Tareev, Beris Mikhailevich)



Some Studies on Li-Zn-Ferrites.

57-11-14/33

as with the formation of their regular hexagon structure. The results of magnetic measurements show that Li-Zn-Ferrites show a dispersion of the resonance type within the range of 107 cycles. The authors stated that the magnetic permeability of the ferrites investiggated is smaller than 1 at a wave length of 3,2 cm. Li-Zn-ferrites supply the usual absorption curve in dependence on the constant magnetic field in the case of high frequency. The thermal extension of the Li-Zn-ferrite within a wide temperature range was investigated and an anomaly was found in the near of the Curie point with the extension in consequence of heat. There are 9 figures, 3 tables and 12 Slavic references.

ASSOCIATION:

Moscow Institute for Energetics (Moskovskiy energeticheskiy institut)

SUBMITTED:

December 30, 1956

AVAILABLE:

Library of Congress

Card 2/2

DROZDOV, N.G.

LUKITANOV, F. M.; DROSDOV, M.G.

Minimum power of a static electric spark necessary to set off the explosion of a tank car being filled with petroleum products. Weft.khox. 35 no.3153-56 Mr 157. (MIRA 10:4) (Electrostatics) (Tank cars) (Petroleum-Transportation)

ALEKSANDROV, A.G., dots; ARONOVICH, I.S., insh.; BABIKOV, M.A., doktor tekhn.nauk; BATUSOV, S.V., kand.tekhn.nauk; BEL'KIND, L.D., doktor tekhn.nauk; VENIKOV, V.A., doktor tekhn.nauk; VESELOVSKIY, O.H., kand.tekhn.nauk; GOLOVAH, A.T., doktor tekhn.nauk; GOLUBTSOVA, V.A., doktor tekhn.nauk; GREYMER, L.K., inzh.; GRUDINSKIY, P.G., prof.; QUSEV, S.A., ingh.; DMOKHOVSKAYA, L.F., kand.tekhn.nauk; DROZDOV, N.G., doktor tekhn.nauk; IVANOV, A.P., doktor tekhn.nauk [deceased]; KAGANOV, I.L., doktor tekhn.nauk; KERBER, L.L., inzh.; KOCHEHOVA, A.I., kand tekhn nauk.; IARIONOV, A.N.; MINOV, D.K., doktor tekhn nauk; NETUSHIL, A.V., doktor tekhn.nauk; NIKULIN, N.V., kand.tekhn.nauk; NILHIDER, R.A., prof.; PANTYUSHIN, V.S., prof.; PASYNKOV, V.V., doktor tekhn.nauk; PRIVEZENTSEV, V.A., doktor tekhn.nauk; POLIVANOV, K.M., doktor tekhn.nauk; PRIVEZENTSEV, V.A., doktor tekhn.nauk; RADUNSKIY, L.D., inzh.; RENNE, V.T., doktor tekhn.nauk; SVENCHARSKIY, A.D., doktor tekhn, nauk; SOLOV'YEV, I.I., doktor tekhn, nauk; STUPEL' F.A. kand.tekhn.nauk; TALITSKIY, A.V., prof.; TEMNIKOV, F.Ye., kand.tekhn. nauk; FEDOROV, L.I., insh.; PEDOSEYEV, A.M., doktor tekhn.nauk; KHOLYAVSKIY, G.B., ingh.; CHECHET, Yu.S., doktor tekhn.nauk; SHNEY-BEIRG, Ya.A., kand.tekhn.nauk; SHUMILOVSKIY, N.N., doktor tekhn.nauk; ANTIK, I.B., red.; MEDVEDEV, L.Ya., tekhn.red.

[The history of power engineering in the U.S.S.R. in three volumes] Istoriia energeticheskoi tekhniki SSSR v trekh tomakh. Moskva, Gos. energ. izd-vo.

(Continued on next card)

ALEKSAMDROV, A.G. -- (continued) Card 2.

Vol.2. [Blectric engineering] Blektrotekhniks. Avtorskii kollektiv toma: Aleksandrov i dr. 1957. 727 p. (MIRA 11:2)

1. Moscow. Moskovskiy energeticheskiy institut. 2. Chlen-korrespondent AN SSSR (for Larionov)
(Electric engineering)

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SOY/105-59-10-12/25

8(2) AUTHORS: Drozdov, N. G., Doctor of Technical Sciences, Yegorov, V. N., Candidate of Technical Sciences

TITLE:

On the Problem of Neutralizing the Charge of Static Electricity by Radioactive Radiation

PERIODICAL:

Elektrichestvo, 1959, Nr 10, pp 63-67 (USSR)

ABSTRACT:

The authors investigated here some problems connected with the selection of radiation sources and present some data obtained from experiments on the neutralization of electric charges.

Accordingly, the following was found: (1) For the purpose of neutralizing charges of static electricity with the help of air investion by radicactive radiation the following natural and ionization by radicactive radiation the following natural and ionization by radicactive radiation the following natural and ionization by radicactive radiation the following attraction are present: radium, polonium 238, transuranium &-sources are the most suitable ones: plutonium 236, transuranium accessible at present: radium, polonium following attraction accessible at present: radium, polonium following accessible and inexpensive &-source, but cannot be used in accessible and inexpensive &-source, but cannot be used in accessible and inexpensive &-source, but cannot be used in industry since no stable polonium foils (which prevent "outflow" industry since no stable polonium foils (which prevent "outflow" industry since no stable polonium foils (which prevent "outflow" industry since no stable polonium foils (which prevent "outflow" industry since no stable polonium foils (which prevent "outflow" industry since no stable polonium foils (which prevent "outflow" industry since no stable polonium foils (which prevent "outflow" industry since no stable polonium foils (which prevent "outflow" industry since no stable polonium 239 is too expensive. (3) Alpha sources is too short. Plutonium 239 is too expensive.

Card 1/3

On the Problem of Neutralizing the Charge of Static Electricity by Radioactive Radiation

SOY/105-59-10-12/25

should be used for the neutralization of charges where no other sources are available. (4) Since  $\alpha$ -sources are badly accessible, sources of "soft"  $\beta$ -radiation can also be used, e.g. the isotopes promethium 147 or sulphur 35. The use of sulphur 35 is restricted by its short half-life. Some automatic production plants may also use such isotopes as thallium 204, for example, provided the personnel is sufficiently shielded. (5) In some cases in which radiation sources are used, the personnel must be shielded correspondingly. (6) The permissible limits of radiation flux for personnel employed in plants with ionization installations are one-tenth of the standards specified here. Air contamination must not exceed the following values:

 $\beta$ -contamination (except Sr<sup>90</sup>), 5·10<sup>-13</sup> curies/1;  $\alpha$ -contamination except Rn), 5·10<sup>-15</sup> curies/1 (for Rn contamination equals 10<sup>-12</sup> curies/1).(7) A dosimeter service is to be established in all

Card 2/3

On the Problem of Neutralizing the Charge of Static Electricity ' Radioactive Radiation

SOV/105-59-10-12/25

plants using radioactive sources. There are 4 figures, 2 tables, and 6 references, 5 of which are Soviet.

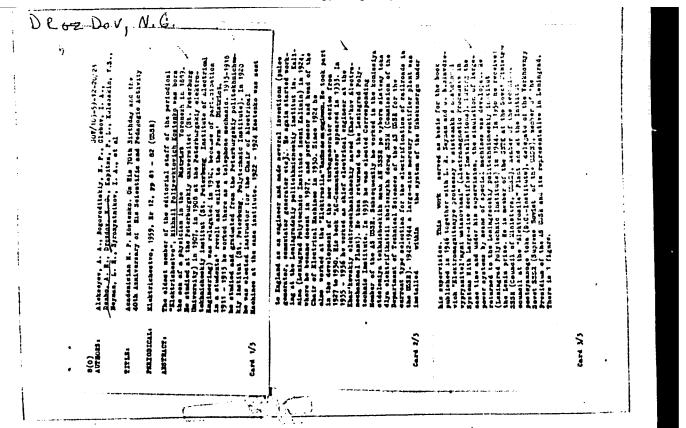
ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Institute of Power Engineering), Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. Gubkina (Moscow Institute of the Petroleumchemical and Gas Industry imeni Gubkin)

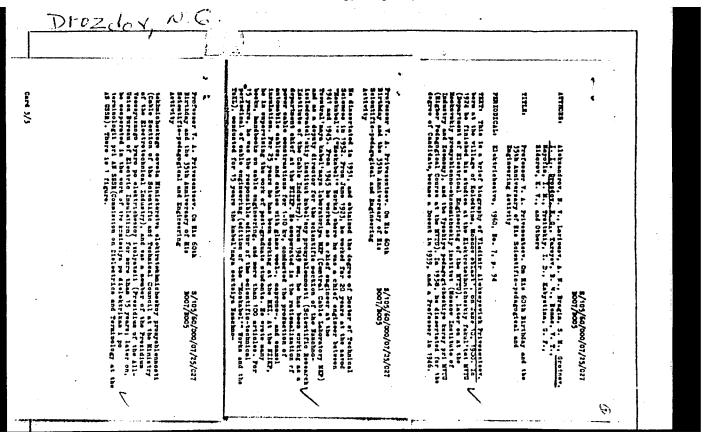
SUBMITTED:

May 7, 1959

Card 3/3

Keitenke R. F., Eddanda, T. S., Sar/105-19-11-27/32  Ensanding C. F., Feddand J. C., Eddand J. F., Kozzar, B. P., L. T., Sakolar, R. M., and Share	Professor W. C. Celinia, On Els 90th Birthday and Els 7th Tear of Scientific, Incineering, and Pedagogiani Astrity Enderralestve, 1959, Er 11, p 97 (EEE) Professor Mileali Origer-Professori, Institut Science of the Professor Mileali Origer-Professori, Institut Science Otto Relatin Institute of Four Experiency, and a specialist is the finder of Institute of Four Experiency, and a specialist is the finder of Institute of Four Experiency, and a specialist is the finder of Institute of Four Experiency, and a specialist is the finder all institute of Four Experiency, and a children to discuss the relating for the sense of Children the obtained the degree of Desire of Februar Sciences, Mass 1950, as no suggest the Kinder Theire- Sciences, Mass 1950, as the suggest the Kinder Theire- Sciences Asserting propriet of Their Institute of Science o	methods in universities, on sedectific problems of electric detects and electricitation. He begins are well being more workers and electricitation. His begins are well been made of electricity residents. He described the besides of the leading-included by the season of the leading-included by the season of the leading-included by the season of the setting meather private and the leading-included by the season of the setting meather the season of the setting meather the season of the setting meather the season of th	
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5/081/63/000/004/024/051 B187/B208

Drozdov, N. G., Valeyev, Kh. S., Mashkovich, M. D. AUTHORS:

Nonlinear semiconductors on the basis of zinc and titanium

TITLE: oxides with glass admixture

Referativnyy zhurnal. Khimiya, no. 4, 1963, 431, abstract PERIODICAL:

4M41 (Tr. Gos. issled. elektrokerem. in-ta, no. 4, 1960,

64 - 69).

Card 1/2

TEXT: The authors studied a possible improvement in the monlinear properties of semiconductors on the basis of ZnO-TiO2 by adding easily fusible glass. Small additions of glass were assumed to cause an additional artificial blocking layer by forming a thin glass film on the grain surface. Low-resistant compositions of ZnO-TiO2 were first synthesized at a temperature of 1300°C and then comminuted to maximum grain diameters of 10 - 15  $\mu$ , after which 2 - 6 % by weight of easily fusible glass were added. Burning was effected at temperatures of 1030 - 1320°C, the final temperature being maintained for about 1 hr. With rising temperature of

Nonlinear semiconductors on the ...

S/081/63/000/004/024/051 B187/B208

burning resistivity dropped abruptly owing to a reduction of the contact resistances caused both by diminution of the spacings between the grains and by a reduction in the number of contact places in the process of recrystallization. Under otherwise equal conditions resistivity considerably increases with an increasing proportion of easily fusible glass and with increasing TiO<sub>2</sub>-content. The nonlinearity coefficient was found to be increased considerably by adding small amounts of easily fusible glass to a semiconductor composition of the Tn<sub>2</sub>TiO<sub>4</sub>- ZnO type, both at high and low voltages. [Abstracter's note: Complete translation.]

Card 2/2

ALEKSANDROV, N.V.; LARIONOV, A.N.; BRAGIN, S.N.; GRODNEV, I.I.; DROZDOV,
N.G.; TAREYEV, B.M.; PENNE, V.T.; MAYOFIS, I.M.; TROITSKIY, I.D.;
KABYSTINA, G.F.; SIDOROV, K.V.

Professor Vladimir Alekseevich Privezentsev. Elektrichestvo no.7:94 Jl '60. (MIRA 13:8) (Privezentsev, Vladimir Alekseevidh, 1900-)

CHILIKIN, M.G.; SIROTINSKIY, L.I.; VENIKOV, V.A.; ULIYANOV, S.A.; GRUD INSKIY, P.G., FEDOSEYET, A.M., SOLOV'YEV, I.I.; DROZDOV, H.G.; STRONTATHIKOV, I.A.

> Aleksandr Aleksandrovich Glasunov; obituary. Elektrichestvo (MIRA 13:8) no.8:88-89 Ag 160. (Glazunov, Aleksandr Aleksandrovich, 1891-1960)

DROZDOV, Nikolay Gavrilovich; NIKULIN, Nikolay Vasil'yevich; PROKOF'YEVA, N.B., red.; DORODNOVA, L.A., tekhn.red.

[Electric materials] Elektromaterialovedenie. Moskva, Vses. uchebno-pedagog.isd-vo Proftekhizdat, 1960. 285 p. (MIRA 14:2)

(Blectric engineering--Materials)

20082 s/105/61/000/004/001/003 B116/B206

...

Drozdov, N. G., Kukarin, A. I., Savashkevich, B. S., and 26.2351

AUTHORS: Gorelov, N. 1. (Moscow)

Electrostatic generator TITLE:

Elektrichestvo, no. 4, 1961, 48-50 PERIODICAL:

TEXT: An electrostatic generator is described, the operation of which is based on the following principle: Plexiglass is always positively charged when brought into contact with polyethylene and Teflon, while Teflon is negatively charged thereby and polyethylene changes the sign of its charge, depending on whether it comes into contact with Plexigless or Teflon. Dielectrics which are charged only positively or only negatively are called positive and negative dielectrics, respectively. Those which change the sign of their charge are called intermediate dielectrics. For an alternating interaction between the intermediate dielectric and the positive and negative dielectric, respectively, the maximum charge density  $\delta_{max}$  on the surface is expressed by  $\delta_{max} = \epsilon E/4\pi$ , where E is the breakdown strength of the

rand 1/6

20082 \$/105/61/000/004/001/003 B116/B206

Electrostatic generator

electric field, and & the dielectric constant of the interspace between rotor and stator. Maximum charge density is obtained much more quickly with an interaction of three dielectrics than with one of only two. Such favorable conditions also result when the intermediate dielectric is displaced from the negative to the positive dielectric. Some consecutive interactions are sufficient for obtaining the biggest possible charge. Electrostatic d-c and a-c generators may be designed on this principle. A schematic representation of an electrostatic d-c generator is shown in Fig. 1. The stator consists of Plexiglass (1) and Teflon (2). The rotor is a Plexiglass cylinder with metal plates (3). The charges on the inner face of the stator are excited by polyethylene brushes (4) mounted on the rotor. The electric field of the stator induces opposite charges on the plates (3). When the plates approach the collectors K, and K2, the free charges leak off, while the bound charges are retained. After the latter have reached the range of action of the other dielectric, they become additional free charges and amplify the free main charge of the rotor plates. Fig. 3 shows the dependence of the short-circuit current on the position of the collectors and on the direction of rotor movement. If the collectors

rard 2/6

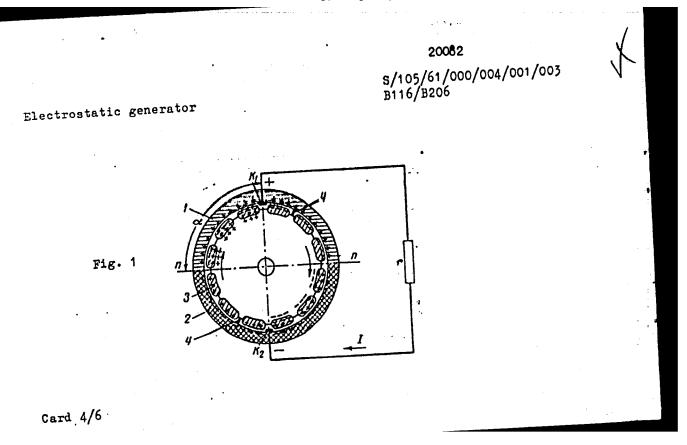
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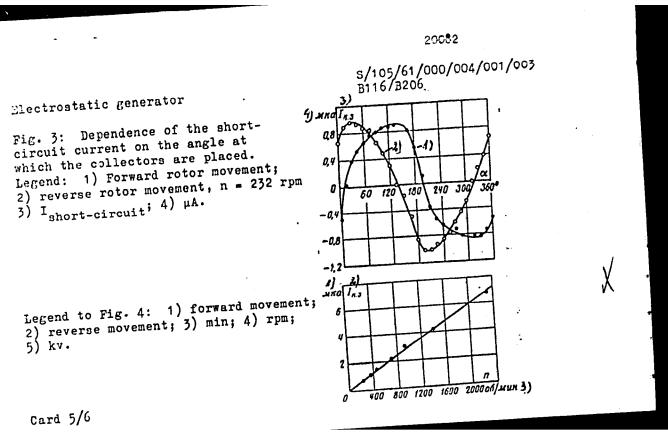
Electrostatic generator ...

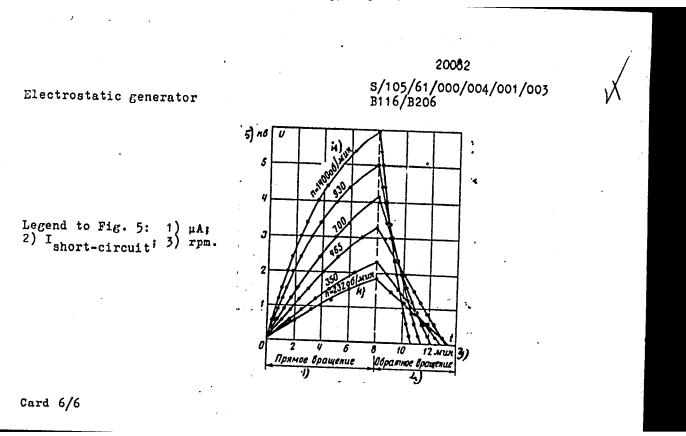
are placed at 0 and 180°, the generator polarity changes according to the direction of rotor movement. This can be utilized in dosimetric circuits for accurate voltage adjustment when charging reservoir and feeder capacitors. Fig. 4 shows the characteristics of the generator during charging and discharging of a capacitor of 10-7 f. The charging takes place according to an exponential law, the discharging almost according to a linear law. Fig. 5 shows the dependence of the short-circuit current on the rotor speed. Alternating current can also be obtained from the electrostatic Generator described. For this purpose it is sufficient to unite all rotor plates into two groups and to connect these to the two contact rings. When using Teflon, Plexiglass, and polyethylene, such generators operate perfectly under hardest climatic conditions at a humidity of up to 98% and temperatures of from -40 to +50°C. There are 5 figures and 3 references: 1 Soviet-bloc.

SUBMITTED: June 23, 1960

Card 3/6







24.7800 (1343, 1153, 1160)

S/105/61/000/005/001/005 B116/B221

AUTHORS:

Drozdov, N. G., Kostyukov, N. S., and Sakharov, S. S.

TITLE:

The magnitude of the electromotive force generated by

irradiation of dielectrics

PERIODICAL:

Elektrichestvo, no. 5, 1961, 68-69

TEXT: As concerns the determination of the magnitude of the electromotive force generated by soft X-ray irradiation of dielectrics, there are considerable discrepancies to be found in a number of papers, e.g. by F. I. Kolomiytsev and A. Ya. Yakunin (Ref. 1: "Izv. vysshikh uchebnykh zavedeniy (Fizika)," 1958, no. 5), by F. I. Kolomiytsev and F. F. Kodzhespirov (Ref. 2: Fizika dielektrikov, Trudy vsesoyuznoy konferentsii po fizike dielektrikov, g. Dnepropetrovsk, 1956), by F. F. Kodzhespirov (Ref. 3: Tezisy dokladov Vtoroy vsesoyuznoy konferentsii po fizike dielektrikov, Izd. Akademii nauk SSSR, 1958), and by F. F. Kolomiytsev and A. Ya. Yakunin (Ref. 4: as in Ref. 3). While the same authors, and K. Ya. Yakunin (Ref. 4: as in Ref. 3). While the same authors, working with the same material, in older papers gave the value of 0.1 v and less for the magnitude of the emf, this value is in the above papers

Card 1/3

The magnitude of the ...

S/105/61/000/005/001/005 B116/B221

given as attaining some hundred and even some thousand volts. These discrepancies are explained as experimental errors by the authors mentioned. The authors checked the above data on an X-ray apparatus with a tungsten anode at a voltage of 30 and 45 kv at the valve and 5, 10, and 14 ma. On the basis of the results obtained, the authors make the following statements: The electromotive force generated by the effect of X-ray irradiation alone amounts to 0.1 v. Electromotive force of several hundred or several thousand volts is generated by the simultaneous action of high voltage and X-ray irradiation. The rise of such a voltage on the specimen becomes clear if one considers the specimen as a part of the dielectrics surrounding the X-ray tube. If there is no X-ray irradiation, the dielectrics surrounding the tube (the air) show high insulating properties, a high  $ho_{V}$ , and an insignificant voltage drop on the specimen. If X-ray irradiation and high voltage are switched on at the same time, the air is strongly ionized, the  $\rho_{\nu}$  of the air is decreased and the voltage drop on the specimen increases. Thus, it follows that the electromotive force increases together with the increase of the intensity of irradiation according to the exponential law, as observed

Card 2/3

The magnitude of the ...

S/105/61/000/005/001/005 B116/B221

in the paper (Ref. 1). There are 4 Soviet-bloc references.

SUBMITTED: December 31, 1960

Card 3/3

32646 s/105/62/000/001/003/006 E032/E414

9,6150

Drozdov, N.G., Gorelov, N.I., Savashkevich, B.S., Kukarin, A.I. (Moscow)

Kukarin, A.I.

AUTHORS: Semiconducting cadmium sulphide detectors of gamma TITLE:

radiation

PERIODICAL: Elektrichestvo, no.1, 1962, 49-51

In 1957, the present authors developed semiconducting detectors FN-1 (GP-1) whose sensitivity to Co60 gamma rays reached 20 µA per 1 r/hr. This work was directed by S.M.Ryvkin. The inertia of these detectors was comparable to that of single crystals of CdS. The semiconducting detectors were produced by sublimation of cadmium sulphide powder on to a heated conducting base which served as one of the electrodes of the detector. second electrode was deposited by vacuum evaporation on to the Technological modifications enabled the present authors to improve the characteristics of these detectors, In the present paper they report the results of measurements of ampere characteristics in the absence of ionizing radiation are unipolar and practically linear between 1.5 and 10 V. A-ma 1/4

CIA-RDP86-00513R000411220 APPROVED FOR RELEASE: Thursday, July 27, 2000

32646 \$/105/62/000/001/003/006 E032/E414

Semiconducting cadmium sulphide ...

current at 10 V was found to lie between 25 and 80  $\mu A$ . The response of the detectors to gamma radiation is nonlinear and may be represented by  $I = u K^{\alpha}$  (1)

where I is the total current flowing through the detector, U is the potential difference across the electrodes and k and are constants. For most specimens  $\alpha$  was found to lie between 1.1 and 1.6. The CdS detectors may be used with U = 1.5 V for which in most specimens the dark current does not exceed 5% of the which in to gamma rays when the dose rate is 10 r/hr. The current due to gamma rays when the dose rate is 10 r/hr. The sensitivity was measured under steady-state conditions with sensitivity was measured under steady-state conditions with U = 10 V. For photosensitive layers of surface area 1.5 cm² and thickness 1 mm, the sensitivity of most specimens for Co60 gamma thickness 1 mm, the sensitivity of most specimens for Co60 gamma to 500 to 700  $\mu$ A per 1 r/hr. It was found that the current rose to 500 to 700  $\mu$ A per 1 r/hr. It was found that the current was directly proportional to the dose rate up to 500 r/hr. Below was directly proportional to the dose rate up to 500 r/hr. Below to 500 keV the sensitivity rapidly increased, and at 90 keV was 300 keV the sensitivity rapidly increased, and at 90 keV was found to be greater than that for Co60 gamma rays by a factor of found to be greater than that for Co60 gamma rays by a factor of found to be greater than that sensitivity may to some extent be

S/105/62/000/001/003/006 E032/E414

Semiconducting cadmium sulphide ...

suitable filters, e.g. 1.5 to 2 mm thick lead plate. The inertia of the detectors was found to be independent of the applied voltage in the range 1.5 to 10 V. Fig. 4 illustrates the inertia properties of the detectors. this figure TH is the time for the photocurrent to increase from zero to 0.8 of its maximum value on irradiation (dark current subtracted) and  $\tau_c$  is the time necessary for the current to fall to 0.2 of the maximum value after the gamma-ray beam has been cut These two time constants are plotted in Fig. 4 as a function of the dose rate in r/hr. The inertia may be reduced in practice by placing the detector in a permanent radiation field. stability of the detectors was highest for gold electrodes. maximum variation in the sensitivity over a period of 5 months was less than 3% of the average value. The corresponding variation in the dark current was 25%. Under humid conditions (humidity greater than 80%) the dark current increased but could be reduced again with the aid of a drying agent. The properties of the detectors were not affected by exposure to a very high dose, e.g.  $5 \times 10^7 \, r$  at 2.5 x  $10^6 \, r/hr$ . It is stated that the main disadvantage of these detectors is their inertia, but it is rand 3/4

32646 5/105/62/000/001/003/006 Semiconducting cadmium sulphide ... E032/E414 expected that this will be eliminated in the near future. are 4 figures and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to an English language publication reads as follows: Ref.2: Lewis E., Hollander Jr., Nucleonics, no.10, 1956, 68. SUBMITTED: December 31, 1960 min 5 Fig.4. 50 J 1, Card 4/4

EESSONOV, L.A.; DOMANSKIY, B.I.; DROZDOV, N.G.; D'YACHENKO, N.Kh.;

ZHEKULIN, L.A.; ZAYTSEV, I.A.; ZALESSKIY, A.M.; KAMENSKIY, M.D.;

KOSTENKO, M.P.; IEHEDEV, A.A.; LOMONOSOV, V.Yu.; MITKEVICH, A.V.;

SMIRNOV, V.S.; TOISTOV, Yu.G.; USOV, S.V.; SHRAMKOV, Ye.G.

L.R. Neiman; on his 60th birthday and the 35th anniversary of his educational work. Elektrichestvo no.6:93-94 Je 162. (MIRA 15:6) (Neiman, Leonid Robertovich, 1902-)

PETROV, B.N.; SOTSKOV, B.S.; LARIONOV, A.N.; CHILIKIN, M.G.;

SYROMYATNIKOV, I.A.; BLAGONRAVOV, A.A.; KRUZHILIN, G.N.;

IVAKHNENKO, A.G.; NAGORSKIY, V.D.; CHELYUSTKIN, A.B.;

DHOZDOV, N.G.; PETROV, I.I.

MITTHIST OF Viktor Sergeevich Kulebakin. Elektrick

Seventieth birthday of Viktor Sergeevich Kulebakin. Elektrich-(MIRA 14:10) estvo no.10:90-91 0 '61. (Kulebakin, Viktor Sergeevich, 1891-)

GAYLISH, Ye.A.; DROZDOV, N.G.; YEVSTROP'YEV, K.S.; KAZARNOVSKIY, D.M.; NEYMAN, L.R.; PASYNKOV, V.V.; PRIVEZENTSEV, V.A.; RENNE, V.T.; TAREYEV, B.M.

N.P. Bogoroditskii; on his sixtieth birthday and the thirty-fifth anniversary of his theoretical and educational work. Elektrichestvo no.7:87-88 Jl '62. (MIRA 15:7)

(Bogoroditskii, Nikolai Petrovich, 1902-)

LATKOV, N.M.; DROZDOV, N.G.

Improvement of technological processes in stamping bicycle gears. Prom.energ. 18 no.1:11 Ja '63. (MIRA 16:4)

DRCZDOV, Nikolay Gavrilovich; NIKULIN, Nikolay Vasil'yevich;
SORCKINA, M.I., red.; DORODNOVA, L.A., tekhn. red.

[Study of electric engineering materials] Elektromaterialovedenie. 2., perer. i dop. izd. Moskva, Proftekhizdat, 1963. 349 p.

(Electric engineering—Materials)

CHILIKIN, M.G.; PETROV, I.I.; RAZEZIG, D.V.; FEDOSEYEV, A.M.;

SYROMYATNIKOV, I.A.; DROZDOV, N.G.

I.I. Solov'ev; on his 60th birthday. Elektrichestvo no.8:94
Ag '63. (MIRA 16:10)

BOGORODITSKIY, N.P.; VAVILOV, V.S.; VALEYEV, Kh.S.; DROZDOV, N.G.;
KORITSKIY, Yu.V.; PRIVEZENTSEV, V.A.; RENNE, V.T.; TAREYEV, B.M.;
YAMANOV, S.A.

B.M. Vul; on his 60th birthday and 35th anniversary of his scientific work. Elektrichestvo no.8:95 Ag '63. (MIRA 16:10)

ARKHIPOV, V.N.; BIRYUKOV, V.G.; BRONSHTEYN, A.M.; DROZDOV, N.G.; KRESTOV, N.I.; NAYASHKOV, I.S.; PETROV, G.N.; SIROTINSKIY, L.I.; CHILIKIN, M.G.

> Professor G.V. Butkevich; on his 60th birthday. Elektrichestvo no.10:92-93 0 163. (MIRA 16:11)

POPOV, V.S., kand. tekhn. nauk; PONCMARENKO, Ye.P., inzh.;
LYASHCHINSKIY, B.I., inzh.; DROZDOV, N.G., inzh.; NEMZER, V.I.,
inzh.; VOKSHIN, I.I., inzh.

Selecting material for spindle-joint bushings of rolling mills. Vest. mashinostr. 43 no.12:29-31 D 163. (MIRA 17:8)

BORISENKO, N.I.; BUTKEVICH, G.V.; VORONETSKIY, B.B.; VASIL'YEV, D.V.;

DROZDOV, N.G.; DUBINSKIY, L.A.; ZALESSKIY. A.M.; KASATKIN, A.S.;

KOSTENKO, M.P.; KUZNETSOV, P.I.; KULEBAK'N, V.S.; MAMIKONYANTS,

L.G.; MEL'NIKOV, N.A.; NEYMAN, L.P.; PETROV, I.I.; RABINOVICH, S.I.;

SAMOKHVALOV, V.A.; SOLODOVNIKOV, V.V.; STEKLOV, V.Yu.; SYROMYATNIKOV,

I.A.; FEDOSEYEV, A.M.; CHILIKIN, M.G.; SHATALOV, A.S.; ZHEKULIN, L.A.

Petr Ivanovich Voevodin, 1884-; on his 80th birthday. Elektrichestvo no.9:92 S 164. (MIRA 17:10)

ACCESSION NR: AP4029147

\$/0105/64/000/004/0072/0076

AUTHOR: Valeyev, Kh. S. (Candidate of technical sciences); Knyazev, V. A.; Drozdov N. G. (Doctor of technical sciences, Professor)

TITLE: Nonlinear semiconductor resistors based on zinc, silicon, and tin oxides

SOURCE: Elektrichestvo, no. 4, 1964, 72-76

TOPIC TAGS: zinc oxide orthostannate semiconductor, zinc oxide orthosilicate semiconductor, nonlinear semiconductor

ABSTRACT: Zinc oxide was selected as a semiconductor in the investigation reported, and TiO2, SiO2, SijO2, Al2O3, B2O3 were tried as dielectric-forming substances. Specifically, two-component ZnO-SiO, and ZnO-SnO, ceramics were investigated. Thermographic and petrographic studies of ZnO, SiO, SnO, and their mixtures in various molecular ratios were conducted. It was found that at 1150-1270 C, the ZnO-SiO2 compound had a slight exothermic effect and exhibited a pronounced expansion of the specimens. Zinc orthosilicate proved to be a good dielectric with  $\epsilon = 8$ ,  $\rho = 10^{12}$  ohms/cm and a breakdown voltage of

Cord 1/2

### ACCESSION NR: AP4029147

30 kv/mm. Zinc orthostannate could be sintered at 1480 C and had & 10 and a breakdown voltage of 25 kv/mm. In the specimens certain proportions were held between the amount of zinc-oxide crystals and that of the ortho-compound. Additional barrier layers were created in some experiments by introducing a low-melt glass. The static current-voltage characteristics, nonlinearity factor, resistance to 20/40- usec current pulses, pulse-carrying capacity, density, specific heat capacity, and thermal conductivity were measured. It was found that the glass. Orig. art. has: 5 figures, 7 tables, and 4 formulas.

ASSOCIATION: Gosudarstvenny\*y issledovatel'skiy elektrokeramicheskiy institut (State Electroceramic Research Institute); Moskovskiy energeticheskiy institut (Moscow Power-Engineering Institute)

SUBMITTED: 20Dec63

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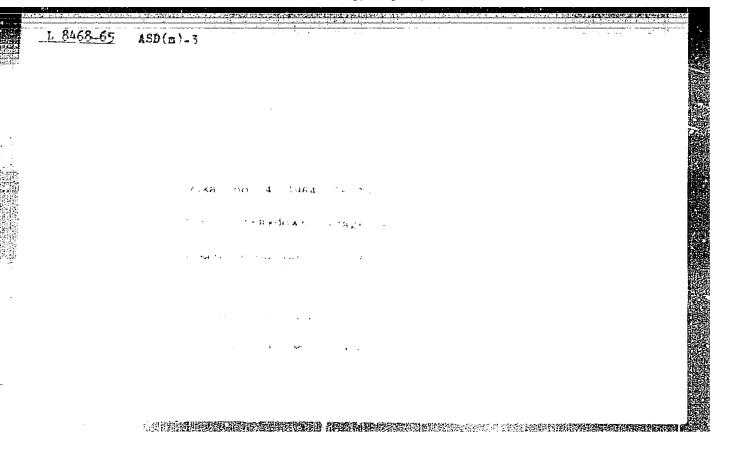
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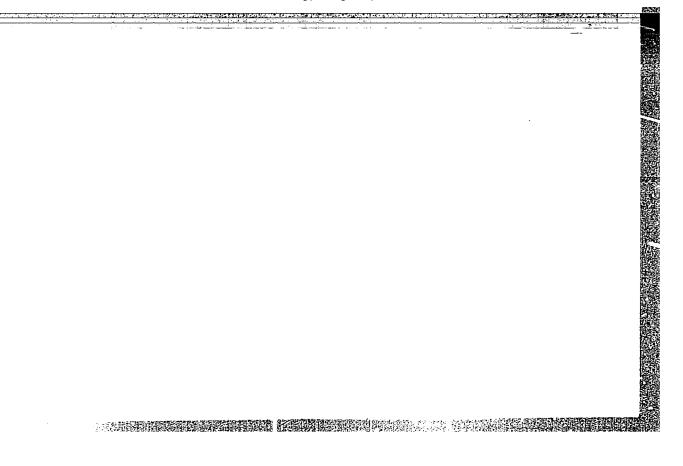
SUB CODE: EC.

NO REF SOV: 014

OTHER: 003

Card . 2/2





BURGSDORF, V.V.; GORTINSKIY, S.M.; DROZDOY, N.G.; KULAKOVSKIY, V.B.; LINDORF, L.F.; MEL'NIKOV, N.A.; PETROV, I.I.; PORTNOY, M.K.; SYROMYATHIKOV, I.A.; FEDOSEYEV, A.M.; KHACHATUROV, A.A.; EL'KIND, Yu.M.

Lev Grazdanovich Mamikoniants; on his 50th birthday and the 30th anniversary of his scientific and practical work. Elektrichestvo no.5:90 My 65. (MIRA 18:6)

ALEKSANDROV, B.K.; DERMAN, B.A.; DROZDOV, N.G.; DUBINSKIY, L.A.;

TATESCKIY, A.M.; KAMENSKIY, M.D.; KÖZLOV, M.D.; LISOVSKIY, G.S.;

SIMELOBOV, K.S.; TREBULEV, P.V.; USPENSKIY, B.S.; KHEYFITS, M.D.;

SHVETSOV, M.A.

Nikolai Nikolaevich Krachkovskii, 1889-; on his 75th birthday. Elektrichestvo nc.1:90 Ja '65. (MIRA 18:7)

ALEKSEYENKO, G.V.; BORISENKO, N.I.; VOYEVODIN, I.D.; DROZDOV, N.G.; KRAYZ, A.G.;
MAN'KIN, E.A.; MAYORETS, A.I.; NEKRASOV, A.M.; NAYASHKOV, I.S.; PAVLENKO,
A.S.; ROKOTYAN, S.S.; SOBOLEV, A.A.; SYROMYATNIKOV, I.A.; SAPOZHNIKOV,
A.V.; SARKISOV, M.A.; CHERNICHKIN, D.S.; CHERTIN, A.M.

Samuil Isaakovich Rabinovich, 1905; on his 60th birthday. Elektrichestvo no.6:90 Je '65. (MIRA 18:7)

PREOBRAZHENSKIY, Aleksey Alekseyevich, dots., kand. tekhn. nauk;
BALASHOV, Ye.P.; RAYTSIN, D.G.; DROZDOV, N.G.; prof.,
retsenzent; KIFER, I.I., dots., retsenzent; DANILOVA,
V.V., red.

[Magnetic materials] Magnitnye materialy. Moskva, Vysshaia shkola, 1965. 234 p. (MIRA 18:10)

1. Moskovskiy institut stali i splavov (for Kifer). 2. Leningradskiy elektrotekhmicheskiy institut imeni Ul'yanova (for Preobrazhanskiy).

L 11249-00 ACC NR. AP6005027 SOURCE CODE: UR/0105/65/000/001/0090/0090 AUTHOR: Aleksandrov, B. K.; Derman, B. A.; Drozdov, N. G.; Dubinskiy, L. A.; Zalesskiy, A. M.; Kamenskiy, M. D.; Kozlov, M. D.; Lisovskiy, G. S.; Sinelobov, K. S.; Trebulev, P. V.; Uspenskiy, B. S.; Kheyfits, M. D.; Shvetsov, M. A. ORG: none TITLE: Nikolay Nikolayevich Krachkovskiy SOURCE: Elektrichestvo, no. 1, 1965, 90 TOPIC TAGS: electric power engineering, electric engineering personnel ABSTRACT: Brief biography or subject, a senior scientific associate of the Institute of Power Engineering AS USSR, on the occasion of his 75th birthday on 16 Dec 64. He was graduated from the Leningrad Polytechnical Institute in 1916. Worked for a number of years in the planning, surveying, construction and operation of the first HV transmission lines and substations. From 1922 to 1926, participated in the planning and construction of the first Soviet hydroelectric station (Volkov GES im. Lenin) and 110 kv transmission line. In 1927-1932, designed transmission lines at the GET (State Electrical Engineering Trust) and the Leningrad branch of Dneprostroy. Chief of electric power and transmission section at Sverd-lovsk, Volgostroy and Leningrad Energoproyekt (1932-1938); simultaneously atudied 100-cycle current for AS USSR and participated in planning the Kuybyshev GES - Moscow transmission line. Worked at Leningrad Gidroproyekt until 1947, and at Moscow Gidrenergoproyekt until 1955. Among the first to propose UDC: 621.31

and two in	ventic	ons. A	warded	scow line from Authors the Order of ligure.	d over 75 so	al antific	and tasks	 f cles,	
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L 19051-66 ACC NRI APGOOL792 SOURCE CODE: UR/0105/65/000/005/0090/0090 AUTHOR: Burgsdorf, V. V.; Gortinskiy, S. M.; Drozdov, N. C.; Kulakovskiy, V. B.; Lindorf, L. S.; Hel'nikov, N. A.; Petrov, I. I.; Portnoy, M. K.; Syromyatnikov, I. A.; Fedoseyev, A. M.; Khachaturov, A. A.; El'kind, Yu. M. 42 38 ORG: none TITLE: Doctor of engineering sciences. Professor L. G: Mamikonyants SOURCE: Elektrichestvo, no. 5, 1965, 90 TOPIC TAGS: electric engineering personnel, electric engineering ABSTRACT: The article was written in honor of Lev Grazdanovich Kamikonyants on the occasion of his 50th birthday and upon his completion of 30 years of scientific and industrial activity. He graduated from the Azerbaydzhan Industrial Institute in 1938, whereupon he worked at the Central Industrial Research Laboratory of Azenergo first as Electrical Engineer and then as Chief Engineer. His scientific activity begun during the student years at the university laboratories for electrical machinery and high-voltage techniques. From 1941 to 1945 he served in the Soviet Army and became a member of the Communist Party in 1942. Since 1945 he has been working with the VNIIE (All-Soviet Scientific-Research Institute of Electric Power) at the State Industrial Commission on Power and Electrification of the USSR, in charge of the Electrical Machinery Laboratory now and also as head of the Department of Electrical Machinery. Insulation and Automation. Since 1953 he has also been the Vice-Director of the Institute of Scientific Affairs. He received the degree of Doctor of Card 1/2

L 13051-66 ACC NR: AP6001792

Engineering Sciences in 1959 and was appointed Professor in 1961. Kuch theoretical and practical work has been done under his leadership at the Electrical Machinery Laboratory which he helped to set up. Problems concerning the theory of synchronous machines leading to their improved operation were worked out here (asynchronous condition after loss of excitation, simplified method of compensator starting, self-synchronization of generators, etc.). L. G. Mamikonyants is also active in scientific research coordinating committees on power and electrification in the USSR. He sits also on the Committee for the Determination of Electrical Equipment Parameters and on the Joint Scientific Council of the Moscow Power Institute. Furthermore, he is on the editorial board of Elektrichestvo. During his entire career he has published about 60 works, many of them resulting from basic research. At the Koscow Power Institute he taught a course on "Special Problems in Electric Power Stations" from 1952 to 1954 and on "Testing of Synchronous Machines" from 1953 to 1954. The texts of his lectures were printed in the form of a compendium. He is very effective in training the young generation of students and assisting them in earning their degrees. L. G. Kamikonyants participates in the activities of the VNIE both as recruiter and as lecturer. Orig. art. has: l figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2

22594-66 EWT(d)/EWP(k)/EWP(1)ACC NR: AP6012999 SOURCE CODE: UR/0105/65/000/006/0090/0090 AUTHOR: Alekseyenko, G. V.; Borisenko, N. I.; Voyevodin, I. D.; Drozdov. N. G.; Krayz, A. G.; Man'kin, E. A.; Mayorets, A. I.; Nekrasov, A. M.; Nayashkov, I. S.; Pavlenko, A. S.; Rokotyan, S. S.; Sobolev, A. A.; Syrozyatnikov, I. A.; Sapozhnikov, A. V.; Sarkisov, M. A.; Chernichkin, D. S.; Chertin, A. M. ORG: none TITIE: S. I. Rabinovich (on the occasion of his 60th birthday) SOURCE: Elektrichestvo, no. 6, 1965, 90 TOPIC TAGS: electric engineering personnel, electric transformer, hydroelectric power plant ABSTRACT: The chief specialist of transformer building of the Gosplan (State Planning Commission) USSR, Samuil Isaakovich Rabinovich was born in 1905 in the town of Borisoglebsk of the Voronezh Oblast'. From his student years at the Gosudarstvennyy elektromashinostroitel nyy institut (State Machine-Building Institute) he siready showed interest for power transformers. In the early thirties he designed the first types of domestic Soviet 110 and 220 kV transformers; in 1939 he became the chief designer of the Moskovskiy transformatornyy zavod (Moscow Transformer factory). In 1946, he conducted the design and construction of lightning-resistant transformers; during 1949-1954, Card 1/2 UDC: 621.314(092) eti meningi salamata si kabupatan dan belah sa

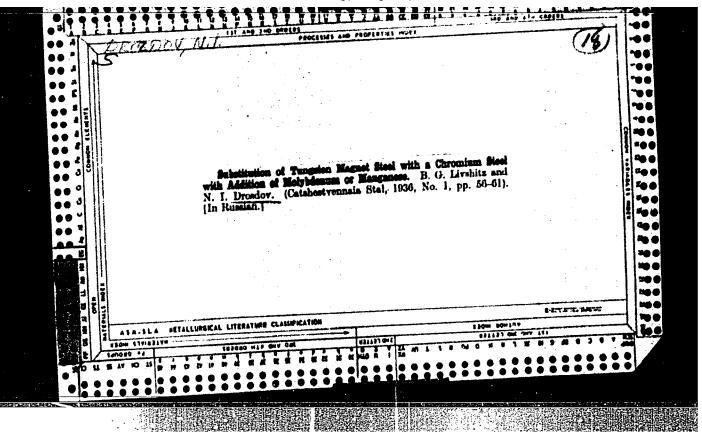
500 at	kV eq the Go	uipm spla:	ent ea n USSR	rned l	ion - Mo nim the is also Slectric	Lenin p	rize.	Prom	1960, ditori	he has	been to	vorkin ne	8	
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ACC NR: AP6035929	(A)	SOURCE CODE:	UR/0413/66/000/020/0194/019
INVENTOR: Arinushkin, Lopukhov, K. K.	L. S.; Polinove	kiy, A. Yu.; Glozma	n, Ye. A.; Drozdov, N. G.;
ORG: none			·
TITLE: Centrifugal pur	mp unit. Class	59, No. 187528	
SOURCE: Izobreteniya, 194-195	promyshlennyye	obraztsy, tovarnyye	znaki, no. 20, 1966,
TOPIC TAGS: pump, cen	trifugal pump, e	ngine fuel pump, ai	rcraft fuel pump
aircraft fuel system, was (rotor) mounted on a st	which consists of haft, and an elec	f a housing (stator ctric motor. To re	ntrifugal pump unit for an ), oscillating assembly duce the danger of fire re connected electrically.  [WA-98]
SUB CODE: 01, 13/ SU	BM DATE: 27Apr64	4	•
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BOHYLEV, Oleg Vasil'yevich; <u>PROZDOV</u>, <u>Nikolay Gavrilovich</u>; NIKULIN, Nikolay Vasil'yevich; HUSCKOV, Favel Vasil'yevich; TSYGANOV, Vladimir Iosifovich; MARCHENKO, N.L., red.

[Technology of the manufacture of electrical insulating materials and constructions] Tekhnologiia proizvodstva elektroizoliatsionnykh materialov i konstruktsii. [By] 0.V. Bobylev i dr. Moskva, Energiia, 1964. 454 p.

(MIRA 18:1)



DROZDOV, H.I.

Outter bar for the low cutting of grasses at increased forward speeds. Trakt. i sel'khozmash. no.7:26-30 Jl 159. (HIRA 12:11)

1. Vsesoyuznyy nauchno-issledovateliskiy institut soliskokhozyaystvennogo mashinostroyeniya.

(Mowing machines)

DROZDOV, N.I.

Power consumption of cutter bars in mowing grass and grain crops. Trakt. 1 sel'khosmash. no.11:26-28 H 159. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovateliskiy institut seliskokhosyaystvennogo mashinostroyeniya (VISKhOM). (Mowing machines)

## DROZDOV, N.I., kand.sel'skokhoz.nauk

Optimum speed of the cutting blades of mowing machines. Trakt.

1 sel'khozmash. 32 no.9:24-26 S '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.

(Mowing machines)